

DAVID KIM

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PROFESSIONAL SUMMARY

Software engineer with quantitative finance background, specializing in data-intensive applications and automation. Track record includes 2,600% portfolio growth through statistical analysis, 75% efficiency improvement via data automation, and development of production AI systems.

PROFESSIONAL EXPERIENCE

Cove	Atlanta
Frontend Engineer	03/2022 - 10/2025
• Developed an internal International Building Code (IBC) AI chatbot using LlamaIndex Retrieval-Augmented Generation (RAG), enabling architects to extract domain-specific knowledge through conversational queries	
• Spearheaded development of an internal BIM data automation tool that reduced COMcheck reporting time from 80 hours to 20 hours, streamlining compliance workflows and improving efficiency by 75%	
• Designed and integrated 23 new BIM tools into a 3D architectural modeling platform, including ortho snapping, HVAC zone assignment, and automated energy code data aggregation	
• Optimized a large-scale 3D modeling application by refactoring React and Redux code base, boosting rendering performance by 26% and enhancing user experience	
Atomic Dev	Los Angeles
Frontend Engineer	04/2020 - 10/2020
• Developed a no-code platform that supported SQL schema creation and structured data workflows	
• Enhanced user experience by streamlining workflows for data entry, schema management, and visualization tasks	
T3 Trading LLC.	New York
Proprietary Trader	08/2018 - 05/2019
• Applied quantitative and technical analysis to trade equities, commodities, and currencies, building financial models to project target prices of equities for long/short strategies	
• Conducted technology sector research by analyzing economic indicators, industry surveys, and analyst reports to forecast market trends and inform systematic trading decisions	
Self-Employed	Boston
Cryptocurrency Analyst/Trader	03/2017 - 04/2018
• Grew portfolio from \$25K to \$675K (+2,600%), outperforming the Total Crypto Market Capitalization (+1,384%) through technical analysis, on-chain data analysis, and statistical risk management	
• Applied time-series analysis including RSI, Fibonacci retracements, and Bollinger Bands, combined with cross-exchange arbitrage strategies to identify profitable trading opportunities	
360 Huntington Fund	Boston
Equity Research Analyst	09/2016 - 07/2017
• Covered four equity positions by developing quantitative valuation models (FCFF, DDM, comparables) and analyzing earnings data to deliver ongoing hold/sell recommendations to senior management	
• Analyzed the fund's portfolio risk exposure using factor models (beta, size factors) and evaluated overall performance by calculating Sharpe ratio and alpha relative to the fund's benchmark index	
• Conducted critical revaluation analyses on LULU (20%+ drawdown) and GOOGL (target price reached), recommending continued holdings that generated 30%+ gains through quantitative modeling and fundamental analysis	

EDUCATION

Hack Reactor	Los Angeles
Advanced Software Engineering Immersive	10/2019 - 01/2020
Northeastern University	Boston
Master of Science in Finance	08/2016 - 08/2017
• Thesis: "The Valuation Effects of Stock Splits and Stock Dividends" - replication study with 2003 - 2017 data	
• Merit-based Scholarship 2016	
Angelo State University	San Angelo
Bachelor of Business Accounting	01/2011 - 05/2014
• Dean's List 2012	
• Member, Phi Theta Kappa Honor Society International, 2011 - 2014	
• Relevant Coursework: Calculus I & II, Linear Algebra, Statistics	

SKILLS

Programming & Data: Python · JavaScript · TypeScript · SQL (PostgreSQL) · Node.js

Frameworks & Libraries: LlamaIndex · React · Django · Three.js · Redux · React Native

Infrastructure & Tools: AWS · Docker · DataDog · Git · Cypress

VOLUNTEER EXPERIENCE

Vegas Tech Guild	Las Vegas
Founder/Organizer	07/2021 - 02/2022
• Established an active community of 50+ tech professionals focused on networking, mentorship, and career growth	
• Partnered with local non-profits to build technology solutions addressing community challenges in Las Vegas	

Hack for LA	Los Angeles
Lead Software Engineer	03/2020 - 07/2020
Hack for LA is a network of civic-minded technologists who contribute their skills toward using the web as a platform for local government and community service.	
• Led a team of software engineers in building a civic tech platform that visualized geospatial parking citation data for the City of Los Angeles using Mapbox GL JS	
• Built scalable back-end architecture (Node.js and PostgreSQL) to support geospatial data analytics and rendering	
• Collaborated with data scientists to design an interactive map interface with filtering, trend analysis, and heat map capabilities, processing large-scale parking citation datasets to improve public access to parking information	